PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE on of information unless it contains a valid OMB control number.

9	Substitute for form 1449/PTO			Complete if Known		
				Application Number	10/664,336	
INF	ORMATION	DISCL	OSURE	Filing Date	09/17/2003	
	STATEMENT BY APPLICANT			First Named Inventor	Mark Julian Roberts	
	(Use as many she	ets as neces	ssary)	Art Unit	3744	
•				Examiner Name	Richard L. Leung	
Sheet	1	of	1	Attorney Docket Number	06411 USA	

			U. S. PATENT DO	OCUMENTS		
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or	
		Number-Kind Code <sup>2 (# known)</sup>			Relevant Figures Appear	
m		<sup>US-</sup> 4 765 813 A	23 Aug 1988	Winters Jr., Arthur R. et al		
me		<sup>US-</sup> 6 449 984 B1	17 Sep 2002	Paradowski, Henri		
		<sup>Us-</sup> 5 768 912 A	23 June 1998	Dubar Christopher Alfred		
20		<sup>US-</sup> 6 308 531 B1	30 Oct. 2001	Roberts, Mark Julian et al		
	-	US→				
		UŞ-				
		US-				
		US-				
		US-				

		FORE	GN PATENT D	OCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Foreign Patent Document Publication Date MM-DD-YYYY		Pages, Columns, Lines, Where Relevant Passages or	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (*			Relevant Figures Appear	۳⁵
200		DE 101 08 905 A	5 Sep 2002	Linde AG		X
no		FR 1 345 823 A	13 Dec 1963	Petrocarbon Dev Ltd		

Examiner Wille C	Jolen .	Date Considered	1-15-06
*EXAMINER: Initial if reference considered, wh	nether or not citation is in conformance with MP	EP 609. Draw line to	hrough citation if not in conformation and not
considered. Include copy of this form with next	communication to applicant. 'Applicant's unique	ue citation designation	on number (optional). "See Kinds Codes of

USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

MAN 02 TOTA WE

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE under the Panerwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

S : 565	TRADE Substitute for form 1449/PTO			Complete if Known		
THAI	THAIL COSSUE OF TAME AND THE			Application Number	10/664,336	
INF	FORMATI	ON DISC	LOSURE	Filing Date	09/17/2003	
	STATEMENT BY APPLICANT			First Named Inventor	Mark Julian Roberts	
	(Use as man	y sheets as nec	essary)	Art Unit	3744	
				Examiner Name	Richard L. Leung	
Sheet	1	of	2	Attorney Docket Number	06411 USA	

			U. S. PATENT DO	DCUMENTS	·	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or	
•		Number-Kind Code <sup>2 (f known)</sup>			Relevant Figures Appear	
25		<sup>US-</sup> 4 765 813 A	23 Aug 1988	Winters Jr., Arthur R. et al		
W		US- 6 449 984 B1	17 Sep 2002	Paradowski, Henri		
_		<sup>US-</sup> 5 768 912 A	23 June 1998	Dubar Christopher Alfred		
20		<sup>US-</sup> 6 308 531 B1	30 Oct. 2001	Roberts, Mark Julian et	·	
me		<sup>US-</sup> 6 250 096	26 Jun 2001	Bonaquist Dante Patrick		
	1	US-				
<del></del>	1	US-				
		US	-			
	<u> </u>	US-				

		FORE	GN PATENT D	OCUMENTS		
Examiner Initials*	Cite No. Foreign Patent Document		Foreign Patent Document Publication Name of P Date of Ci MM-DD-YYYY		Pages, Columns, Lines, Where Relevant Passages or	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5 (d</sup>			Relevant Figures Appear	τ⁴
25		DE 101 08 905 A	5 Sep 2002	Linde AG		$\boxtimes$
20		FR 1 345 823 A	13 Dec 1963	Petrocarbon Dev Ltd		
		·				

Examiner Signature	Du C	Doel	Date Considered	1-19-06

\*\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

MAY 02 2005

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE noter the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

الكات تات	TRAUE Substitute for form 1449/PTO			Complete if Known			
	•			Application Number	10/664336		
	-		LOSURE	Filing Date	09/17/2003		
51 <i>P</i>	STATEMENT BY APPLICANT			First Named Inventor	Mark Julian Roberts		
	(Use as many	sheets as nece	essary)	Art Unit	3744		
				Examiner Name	Richard L. Leung		
Sheet	2	of	2	Attorney Docket Number	06411 USA .		

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	itials* No. 1 the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
		Full International Search Report dated 1 February 2005					
202			<u> </u>				
			-				
		•	ľ				
		•					
·-							
	<u> </u>		<del> </del>				
			<b> </b>				
			<b> </b>				
			<u> </u>				
	ļ	·					
	1						
	-		-				
	1						

Examiner	0.00	$\approx ()$	()	Date	(-15.00
Signature	1 Wille	Local	L/	Considered	17-06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609. Draw line through citation if not in conformance and not

considered. Include copy of this form with next communication to applicant.

'Applicant's unique citation designation number (optional).

'Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Panenwork Reduction Act of 1995

	Substitute for for				re required to respond to a collection of information unless it contains a valid OMB control number.  Complete if Known			
				Application Number				
INI	FORMATI	ON DISC	LOSURE	Filing Date				
ST	STATEMENT BY APPLICANT			First Named Inventor	Mark Julian Roberts			
	(Use as man	v sheets as nec	essary)	Art Unit				
				Examiner Name				
Sheet	1	of	2	Attorney Docket Number	06411 USA			

			U. S. PATENT DO	CUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, When Relevant Passages or
		Number-Kind Code <sup>2 (# known)</sup>			Relevant Figures Appear
200		<sup>US-</sup> 3,511,058	05/12/1970	R. Becker	
2		<sup>US-</sup> 3,818,714	06/25/1974	Etzbach et al.	
w	ļ	<sup>US-</sup> 5,755,114	05/26/1998	Foglietta	
75		<sup>US-</sup> 5,768,912	06/23/1998	Dubar	
w		<sup>US-</sup> 5,916,260	06/29/1999	Dubar	
20		<sup>US-</sup> 6,041,620	03/28/2000	Olszewski et al.	
40		<sup>US-</sup> 6,062,041	05/16/2000	Kikkawa et al.	
20		<sup>UŞ-</sup> 6,250,244	06/26/2001	Dubar et al.	· · · · · · · · · · · · · · · · · · ·
nus		<sup>US-</sup> 6,308,531	10/30/2001	Roberts et al.	
20		<sup>US-</sup> 6,412,302	07/02/2002	Foglietta	
nd		<sup>US-</sup> 6,446,465	09/10/2002	Dubar	
22		<sup>US-</sup> 10/444,029		Brostow et al.	
		US-			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or		
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (*			Relevant Figures Appear	T <sup>€</sup>	
279		DT 24 40 215	03/04/1976	Porcrnja, Anton			

			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Examiner		$\infty$ $\alpha$ $\alpha$	/ I Date	•
Signature	1 / / / ///	C Hara. V	/. I = 17	1 1- 15-01.
Olgriature	1 / 1/2/4	- COW	Considered	1 ( 11 - 6

\*EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissi n r for Patents, P.O. B x 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO				Complete if Known		
13.15.6		. 51001.0	01155	Application Number		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date		
(Use as many sheets as necessary)				First Named Inventor	Mark Julian Roberts	
			"	Art Unit		
				Examiner Name		
Sheet	2	of	2	Attorney Docket Number	06411 USA	

<b></b>		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
no		"SDG&E: Experience pays off for peak shaving pioneer", Cryogenics & Industrial Gases, September/October, 1971, pp 25-28.	
mD		D.T.LINNETT, "MRC Cycle for LNG/Air Separation Saves Money", 10th Australian Chemical Engineering Conference, Sydney, Australia, 24-26 August 1982, pp 280-286	
no		KARLHEINZ MULLER AND WOLFGANG FORG, "Natural Gas Liquefaction by an Expansion-Turbine Mixture Cycle", Chemical Economy & Engineering Review, October 1976 Vol. 8, no. 10 (No.99)	
	·		
_			

			^		
Examiner	20100	~6		Date	1 183 - 106
Signature	10 olle	- Doen	人	Considered	1-19-06

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering,